

XP-002276693

AN - 1994-260978 [25]

AP - JP19910022105 19910215; JP19910022105 19910215; [Based on J06192888 ]

CPY - JOHO-N

- TAKA-N

DC - M11

FS - CPI

IC - C25D11/04 ; C25D11/08 ; C25D11/18 ; C25D11/20 ; C25D13/20

MC - M11-E M11-G

PA - (JOHO-N) JOHOKU RIKEN KOGYO YG

- (TAKA-N) TAKADA KENKYUSHO YG

PN - JP6192888 A 19940712 DW199432 C25D11/20 004pp

- JP7047835B B2 19950524 DW199525 C25D11/20 003pp

PR - JP19910022105 19910215

XA - C1994-119592

XIC - C25D-011/04 ; C25D-011/08 ; C25D-011/18 ; C25D-011/20 ; C25D-013/20

AB - J06192888 Al alloy surface treatment comprises: conducting alumite treatment in sulphuric acid bath applying AC power at current density of 0.8-1.5A/dm<sup>2</sup>; dipping the workpiece into aq. soln. contg. ammonium chromate to seal the micropores; further conducting cation electrocoating.

- USE/ADVANTAGE - Aircraft, vehicles, ships, and building material are suitable uses of the alloy. SST 6000 hrs. induces no corrosion on the treated Al alloy.

- In an example, a 2024-T3 Al alloy was treated by AC alumite processing in 15% sulphuric acid bath under 50Hz, 1 +/- 0.2A/dm<sup>2</sup>, for 30 min. The alloy then underwent the micropore sealing treatment in aq. soln. contg. ammonium chromate 60 g/l at 90 deg.C for 10 min. A cation coating was applied to form 20 microns thick film. The crosscut SST test (80 deg.C spray for 2 hrs. and humid exposure at 98% 50 deg.C for 2 hrs. ) for 1000 cycles gave no corrosion.(Dwg.0/0)

IW - HIGH CORROSION RESISTANCE SURFACE TREAT ALUMINIUM@ ALLOY COMPRISE ALUMITE TREAT SULPHURIC ACID DIP WORKPIECE AQUEOUS SOLUTION CONTAIN AMMONIUM CHROMATE

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NC - 001

OPD - 1991-02-15

ORD - 1994-07-12

PAW - (JOHO-N) JOHOKU RIKEN KOGYO YG

- (TAKA-N) TAKADA KENKYUSHO YG

TI - High corrosion resistance surface treatment of aluminium@ alloy - comprises alumite treatment in sulphuric acid, dipping workpiece into aq soln contg ammonium chromate etc